**Supplemental Tables**

**Supplemental Table 1: Bivariate analysis of toilet difficulty across personal factors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Personal factors  |  | Total N (%) | With difficulty N (%) | Without difficulty N (%) | p-value |
| Sex  |  |  |  |  | <0.001 |
| Male |  | 2,727 (53.5) | 615 (46.5) | 2,112 (56.0) |
| Female  |  | 2,369 (46.5) | 709 (53.6) | 1,660 (44.0) |
| Age *(mean, SD)* |  | 60.1±14.1 | 66.6±13.6 | 57.85±13.6 | <0.001 |
| Education  |  |  |  |  | <0.001 |
| No education  |  | 2,461 (48.3) | 827 (62.7) | 1,634 (43.6) |
| At most primary completed  |  | 1214 (24.0)  | 249 (18.9) | 965 (25.8) |
| Senior high completed  |  | 1214 (24.0) | 219 (16.6) | 995(26.6) |
| University degree/post  |  | 178 (3.51) | 25 (1.89) | 153(4.08) |
| Location of residence  |  |  |  |  | 0.043 |
| Urban  |  | 2,087(41.0) | 511(38.6) | 1,576 (41.8) |
| Rural  |  | 3,009(59.0) | 813 (61.4) | 2,196 (58.2) |
| Marital status |  |  |  |  | <0.001 |
| Never married  |  | 142 (2.82) | 35 (2.75) | 107 (2.84) |
| Married/cohabiting |  | 3,018 (59.9) | 650 (47.4) | 2,416 (64.1) |
| Separated/divorced |  | 664 (13.2) | 177 (13.9) | 487 (12.9) |
| Widowed  |  | 1,219 (24.2) | 457 (36.0) | 762 (20.2) |

**Supplemental Table 2: Bivariate analysis of toilet difficulty across body function and structure**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Body function and structure  | Total N (%) | With difficulty N (%) | Without difficulty N (%) | p-value |
| Health today  |  |  |  | <0.001 |
| Good  | 2,332 (45.8) | 298 (22.5) | 2,034 (53.9) |
| Bad  | 2,762 (54.2) | 1,025 (77.5) | 1,737 (46.1) |
| Remembering things  |  |  |  | <0.001 |
| No difficulty  | 2,144 (42.1) | 184 (13.9) | 1,960 (52.0) |
| Difficulty  | 2,949 (57.9) | 1,140 (86.1) |  1,809 (48.0) |
| Bodily pain  |  |  |  | <0.001 |
| No pain  | 1,296 (25.5) | 45 (3.4) | 1,251 (33.2) |
| Pain  | 3,797 (74.6) | 1,278 (96.6) | 2,519 (66.8) |
| Vision from afar |  |  |  | <0.001 |
| No difficulty  | 1,989 (39.1) | 210 (15.9) | 1,779 (47.2) |
| Difficulty  | 3,101 (60.9) | 1,110 (84.1) |  1,991 (52.8) |
| Vision at arm’s length |  |  |  | <0.001<0.001 |
| No difficulty | 2,092 (41.1) | 236 (17.9) | 1,856 (49.3) |
| DifficultyBody Mass IndexUnderweight Normal weight Overweight Obese  | 2,994 (58.9)714 (14.0)2,821 (55.4)943 (18.5)614 (12.1) | 1,084 (82.1)243 (18.4)697 (52.6)216 (16.3)168 (12.7) | 1,910 (49.3)471 (12.5)2,124 (56.4)727 (19.3)446 (11.8) |

**Supplemental Table 3: Bivariate analysis of toilet difficulty across health conditions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Health conditions  | TotalN (%) | With difficulty N (%) | Without difficulty N (%) | p-value |
| Arthritis |  |  |  | <0.001 |
| Yes  | 577 (11.4) | 217 (16.5) | 360 (9.58) |
| No  | 4,501(88.6) | 1,102 (83.6) | 3,399 (90.4) |
| Stroke  |  |  |  | <0.001 |
| Yes  | 117 (2.30) | 70 (5.30) | 47 (1.25) |
| No  | 4,962(97.7) | 1,250 (94.7) | 3,712 (98.8) |
| Angina  |  |  |  | 0.413 |
| Yes  | 149 (2.93) | 43 (3.26) | 106 (2.82) |
| No  | 4,928 (2.93) | 1,275 (96.7) | 3,653 (97.2) |
| Diabetes  |  |  |  | 0.013 |
| Yes  | 176 (3.47) | 60 (4.55) | 116 (3.09) |
| No  | 4,903 (96.5) | 1,260 (95.5) | 3,643 (96.9) |
| Chronic lung disease/Asthma |  |  |  | <0.001 |
| Yes  | 28 (0.55) | 16 (1.21) | 12 (0.32) |
| No  | 5,051 (99.5) | 1,304 (98.8) | 3,747 (99.7) |
| Depression  |  |  |  | 0.002 |
| Yes  | 69 (1.36) | 29 (2.20) | 40 (1.06) |
| No  | 5,010 (98.6) | 1,291 (97.8) | 3,719 (98.9) |
| Hypertension  |  |  |  | <0.001 |
| Yes  | 613 (12.1) | 195 (14.8) | 418 (11.1) |
| No  | 4,465 (87.9) | 1,124 (85.2) | 3,341 (88.9) |
| Cataract |  |  |  | <0.001 |
| Yes  | 233 (4.59) | 101 (7.66) | 132 (3.52) |
| No  | 4,839 (95.4) | 1,218 (92.3) | 3,621 (96.5) |
| Oral health  |  |  |  | <0.001 |
| Yes  | 125 (2.46) | 48 (3.64) | 77 (2.05) |
| No  | 4,954 (97.5) | 1,272 (96.4) | 3,682 (98.0) |
| Injuries |  |  |  | 0.055 |
| Yes  | 89 (1.75) | 31 (2.35) | 58 (1.54) |
| No  | 4,991 (98.3) | 1,289 (97.7) | 3,702 (98.5) |

**Supplemental Table 4: Bivariate analysis of toilet difficulty across environmental factors**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Environmental factors  | Total N (%) | With difficulty N (%) | Without difficulty N (%) | p-value |
| Someone you can trust or confide |  |  |  | <0.001 |
| Yes  | 3,930 (78.4) | 898 (69.2) | 3,032 (81.7) |
| No  | 1,080 (21.6) | 400 (30.8) | 680 (18.3) |
| Neighbourhood trust level |  |  |  | <0.001 |
| Great extent  | 2,772 (54.6) | 577 (43.8) | 2,195 (58.5) |
| Small extent  | 2,301 (45.4) | 741 (56.2) | 1,560 (41.5) |
| Security at home from crime and violence |  |  |  | 0.841 |
| Safe  | 4,984 (98.2) | 1,294 (98.1) | 3,690 (98.2) |
| Not safe | 93 (1.8) | 25 (1.9) | 68 (1.8) |
| Toilet facility type  |  |  |  | <0.001 |
| Toilet facility inside home  | 662 (13.1) | 129 (9.84) | 533 (14.2) |  |
| Toilet facility outside home | 3, 355 (66.2) | 857 (65.4) | 2, 498 (66.5) |  |
| No facilities (bush, field) | 1, 052 (20.8) | 325 (24.8) | 727 (19.4) |  |
| Toilet facility shared  |  |  |  | 0.201 |
| Yes  | 3, 215 (79.9) | 809 (81.3) | 2, 406 (79.4) |  |
|  No  | 809 (20.1) | 186 (18.7) | 623 (20.6) |  |

**Supplemental Table 5: Bivariate analysis of toilet difficulty across participation factors**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Participation  | Total N (%) | With difficulty N (%) | Without difficulty N (%) | p-value |
| Public meeting attendance |  |  |  | <0.001 |
| None | 2,334 (46.0) | 820 (62.3 | 1,514 (40.3) |
| Yes  | 2,737 (54.0) | 497 (37.7) | 2,240 (59.7) |
| Socialised with co-workers outside work |  |  |  | <0.001 |
| None |  2,006 (39.7) | 667 (50.6) | 1,339 (35.8) |
| Yes | 3,050 (60.3) | 651 (49.4) | 2,399 (64.2) |
| Neighbourhood participation level |  |  |  | <0.001 |
| None | 2, 158 (42.6) | 739 (56.2) | 1, 419 (37.8) |
| Yes | 2, 910 (57.4)  | 576 (43.8) | 2, 334 (62.2) |  |
| Religious meeting attendance |  |  |  | <0.001 |
| None | 661 (13.1) | 255 (19.4) | 406 (10.8) |
| Yes | 4,398 (86.9) | 1,058 (80.6) | 3,340 (89.3) |
| Visiting friends/relative |  |  |  | <0.001 |
| None  | 670 (13.2) | 261 (19.8) | 409 (10.9) |
| Yes  | 4,390 (86.8) | 1,055 (80.2) | 3,335 (89.1) |